

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Massoud Kayvanjah

GENERAL INFORMATION:

Name: Kentucky Utilities Company – Tyrone Generating Station
Address: 6800 Tyrone Pike Versailles, Kentucky, 40383
Date application received: June 1, 2004
SIC/Source description: 4911/ Electric Generation
AFS(10-digit) Plant ID: 21-239-00001
Agency of Interest number: 4244
Permit number: V-05-018

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(2)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

☒ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☐ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☐ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☒ Pollution Prevention Measures
☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (2004)(tpy)	Potential (tpy)
PM ₁₀	17	114
PT	70	322
SO ₂	2640	10134
NO _x	556	2955
CO	35	389
VOC	4.2	23.3
LEAD	0.1	.3
HCl	2.25	14

SOURCE PROCESS DESCRIPTION:

Kentucky Utilities Company – Tyrone Generating Station produces electricity from three generators powered by the combustion of diesel fuel from four fuel oil#2 burning boilers rated at 463.7 mmBTU/hr each (Emission Units 01 – 04) installed 1947 and 1948, and from a coal burning boiler rated at 976 mmBTU/hr (Emission Unit 05) installed in 1953. Emission Units 01-04 have no emissions control devices. Emission Unit 05 is equipped with an electrostatic precipitator to control particulates emissions and a Low NO_x Burner to control the NO_x emissions. The facility also operates a 7 mmBTU/hr Fuel Oil-Fired Auxillary Boiler (Emission Unit 07) installed in 1963 with no air emission control equipment.

Coal handling for Boiler Unit 05 is operated through Emission Unit 06 that includes a stockpile; the receiving hopper; the primary crusher; and (3) conveyor transfer points. These emission points were constructed prior to 1947 and were in operation in 1947.

There are no significant modifications to the facility for the Title V renewal permit.

EMISSION AND OPERATING CAPS DESCRIPTION:

The percentage of sulfur content of fuel oil fired must be less than 0.3 by weight.

OPERATIONAL FLEXIBILITY:

None